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PPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,511	10/03/2003		Philippe Schottland	GEPL.P-079	2510
43247	7590	05/04/2006		EXAMINER	
Marina Larson & Associates LLC re: lexan				LEE, GUIYOUNG	
PO BOX 492	28			ART UNIT	PAPER NUMBER
DILLON, CO 80435				2875	

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			H12
	Application No.	Applicant(s)	
	10/605,511	SCHOTTLAND ET AL.	
Office Action Summary	Examiner	Art Unit	
	Guiyoung Lee	2875	
The MAILING DATE of this communication a Period for Reply	appears on the cover shee	t with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 1.136(a). In no event, however, ma od will apply and will expire SIX (6) I tute, cause the application to becom	NICATION.  y a reply be timely filed  MONTHS from the mailing date of this communication.  e ABANDONED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on <u>02</u>	? February 2006.	•	
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T	his action is non-final.	·	
3) Since this application is in condition for allow			
closed in accordance with the practice unde	er Ex parte Quayle, 1935 (	C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-42,59 and 60</u> is/are pending in th	ne application.		
4a) Of the above claim(s) is/are withd	lrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-42,59 and 60</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		-
10) The drawing(s) filed on is/are: a) a	accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the corr			
11) The oath or declaration is objected to by the	Examiner. Note the attac	ned Oπice Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume			
3. Copies of the certified copies of the p		een received in this National Stage	
application from the International Burn		not received	
* See the attached detailed Office action for a	list of the certified copies	not received.	
Attachment(s)	<b>4\</b> □ 1=1==:	ew Summary (PTO-413)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	Paper	No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	(08) 5) Notice 6) Other:	of Informal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

#### Prelim./Amdt.

- 1. Receipt is acknowledged of the amendment filed 02/02/2006.
- 2. Claims 1-42 and 59-60 are pending.

## Election/Restrictions

3. Claims 43-58 have been cancelled.

### Response to Arguments

4. Applicant's arguments with respect to claims 1-42 and 59-60 have been considered but are most in view of the new ground(s) of rejection. The new ground of rejection follows:

### Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 6, 16, 25, 34 and 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claims 6, 16, 25, 34, and 40: The chemical groups associated with "derivatives" are indefinite since derivatives do not clearly set forth the metes and bounds of the patent protection desired.

7. Claims 1-42 and 59-60 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Re claims 1 and 59: The phrase "an average X chromaticity coordinate of 0.345 to 0.405" is indefinite because the phrase fails to define the patentable subject matter with a reasonable degree of particularity and distinctiveness. First, it is unclear to the examiner which colorimetric system or standard applicant is applying in order to measure the X chromaticity coordinate. Second, applicant does not define Y chromaticity coordinates corresponding to the X chromaticity coordinates. Third, applicant fails to define other chromaticity measuring factors such as observation angle and geometric configuration.

Re claims 2-42 and 60: Claims 2-42 and 60 are necessarily rejected because of their dependency.

# Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-16, 35-42, and 59-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US 6,637,922 B2) in view of Burns et al. (US 5,920,429).
- 11. Re claims 1-3, 7-10, 35-37, and 59-60: Lee discloses an automotive headlamp and a housing, a light source such as a neon lamp tube, an outer lens, wherein the lens comprises a polycarbonate and a photo-luminescent material such as a fluorescent material (4 in Fig. 3). Lee is silent with regard to the characteristic of the fluorescent material that is altering chromaticity of emitting light. However, it has been known that the photo-luminescent material such as Lee's fluorescent material absorbs light from a light source and emits light having longer wavelength.

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Burns also discloses a color layer (52) of a lens (Fig. 3), and the color layer comprises of polycarbonate resin and fluorescent dyes (col. 9, lines 15+). Further Burns teaches that fluorescent dye absorbs light at a first wavelength and emits at second wavelength which is longer than the first wavelength (col. 3, lines 57+). Furthermore, Burns shows that the X chromaticity coordinates of a fluorescent dye in various polymer matrices are within the range of 0.345 to 0.405 (See the fluorescent dyes having X chromaticity coordinates within the range of 0.345 to 0.405 in Table 7). Various fluorescent dyes in various polymer matrices were available at the time the invention was made as disclosed by Burns in the Table 7, and it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute Lee's fluorescent material with the fluorescent dye having a x chromaticity coordinates within the range of 0.345 to 0.405 as disclosed by Burns above because selection of these known equivalents of fluorescent material would be within the level of ordinary skill in the art.

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- 12. Re claims 4-6, 11-16, and 38-42: Burns teaches a polycarbonate articles containing a fluorescent dye such as a perylene imide dye, and the perylene imide dye is included at a concentration of between about 0.05 and about 1.0 weight percent (col. 7, line 65).
- 13. Claims 17-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee and Burns as applied to claims 1 above, and further in view of Lyons et al. (US 6,155,694).
- 14. Re claims 17-34: The teachings of Lee and Burns have been discussed above. Lee does not disclose the light source is a halogen infrared reflected light source having a low beam output and a high beam output as set forth in the claims 17-19. However, Lyons discloses a halogen headlamp and its light outputs (Fig. 4). It would have been obvious to one having ordinary skill

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in the art at the time the invention made to substitute Lee's light source with Lyons' halogen headlamp because a halogen headlamp is known in the art of headlamp and the selection of these known equivalents would be within the level of ordinary skill in the art. Further, Lyons discloses protrusions formed on a major surface (36 in Fig. 2) of the lens.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guiyoung Lee whose telephone number is 571-272-2374. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LGY

THOMAS M. SEMBER
PRIMARY FYAMINER